

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Beartooth Oil & Gas Company

3. ADDRESS OF OPERATOR

P. O. Box 2564, Billings, Montana 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

2484' FNL, 413' FWL - Sec. 36-T15S-R22E

At proposed prod. zone

1980' FSL, 660' FEL - Sec. 35-T15S-R22E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

40 miles Northwest of Mack, Colorado

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

(at TD) 660'

16. NO. OF ACRES IN LEASE

560

17. NO. OF ACRES ASSIGNED

TO THIS WELL

280

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

19. PROPOSED DEPTH

9100'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7514 GL, 7526' KB

22. APPROX. DATE WORK WILL START*

August 15, 1984

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	32.3# H-40 STC	300'	150 sacks Class "G" - to surface
8-3/4"	7" New 23#	20# K-55 STC	5160'	150 sacks 50-50 pozmix
6-1/4"	4-1/2" New	11.6# N-80 LTC	9100'	175 sacks RFC

1. Surface formation is the Green River
2. Anticipated geologic markers are: Wasatch 1045', Mesaverde 2046', Mancos 4420', Castlegate 4660', Frontier 8140', Dakota 8500', Morrison 8682'.
3. Gas is anticipated in the Dakota and Morrison. No oil or other minerals are anticipated. Possible water sands are expected in the Mesaverde and Wasatch.
4. Proposed casing program: See Item No. 23 above.
5. Pressure control equipment: See attached well control plan and schematic drilling contractor's BOP stack. BOP's will be tested before drilling out from under surface and intermediate casing and checked daily.
6. Air or mist drilling will be used to drill the surface hole unless water is encountered. If water is encountered, chemical-gel type mud will be used. The intermediate hole will be drilled with a fresh water gel type mud not to exceed 9.5 ppg. Air drilling will be used from 5160 to T.D.

(continued on back page)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

James G. Routson
James G. Routson
(This space for Federal or State office use)

TITLE

Petroleum Engineer

DATE

7-6-84

PERMIT NO.

APPROVAL DATE

APPROVED BY

J. H. Ferguson

TITLE

DISTRICT MANAGER

DATE

9/1/84

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

SEP 24 1984

DIVISION OF OIL
GAS & MINERALS

UT-080 4-M-247

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company	<u>Beartooth Oil & Gas Co.</u>					Well No.	<u>36-5D</u>
	<u>35-Surface</u>						
Location	<u>Sec.</u>	<u>36-TD</u>	<u>T</u>	<u>15S</u>	<u>R</u>	<u>22E</u>	Lease No. <u>U-44434</u>
Onsite Inspection Date	<u>N/A</u>						

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

Pressure Control Equipment:

In accordance with API Bulletin RP53, 3000 psi BOP stacks shall be equipped with an annular, bag-type preventer. Prior to drilling out the surface casing shoe the annular-type preventer shall be tested to 1500 psi.

BOP systems will be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

After reaching TD, a directional survey shall be run and the results sent to the BLM, Vernal District Office, Branch of Fluid Minerals. Data should be presented both in the vertical and the horizontal with the bottom hole location indicated on a survey plat.

Anticipated cement tops will be reported as to depth; not the expected number of sacks of cement to be used. The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

Mud Program and Circulating Medium;

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

Coring, Logging and Testing Program:

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).

Anticipated Starting Dates and Notification of Operations:

Daily drilling and completion reports will be submitted on a weekly basis to this office.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed with the Vernal BLM District Office, 170 South 500 East, Vernal, Utah 84078.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for

a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the SO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

BEARTOOTH OIL & GAS COMPANY

P.O. Box 2564

Billings, Montana 59103

(406) 259-2451

July 6, 1984

RECEIVED

JUL 10 1984

**DIVISION OF OIL
GAS & MINING**

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

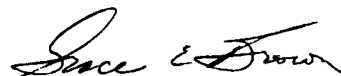
Gentlemen:

Enclosed please find Application for Permit to Drill covering
our Federal 36-5D well in Uintah County, Utah, for your approval.

If you need anything else in this regard, please advise.

Yours very truly,

BEARTOOTH OIL & GAS COMPANY



Grace E. Brown
Drilling Department

gb

cc: Oil, Gas & Mining Division
4241 State Office Building
Salt Lake City, Utah 84114

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(at TD) 660'

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SIGNED

James G. Routson

TITLE Petroleum Engineer

DATE

7-6-84

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

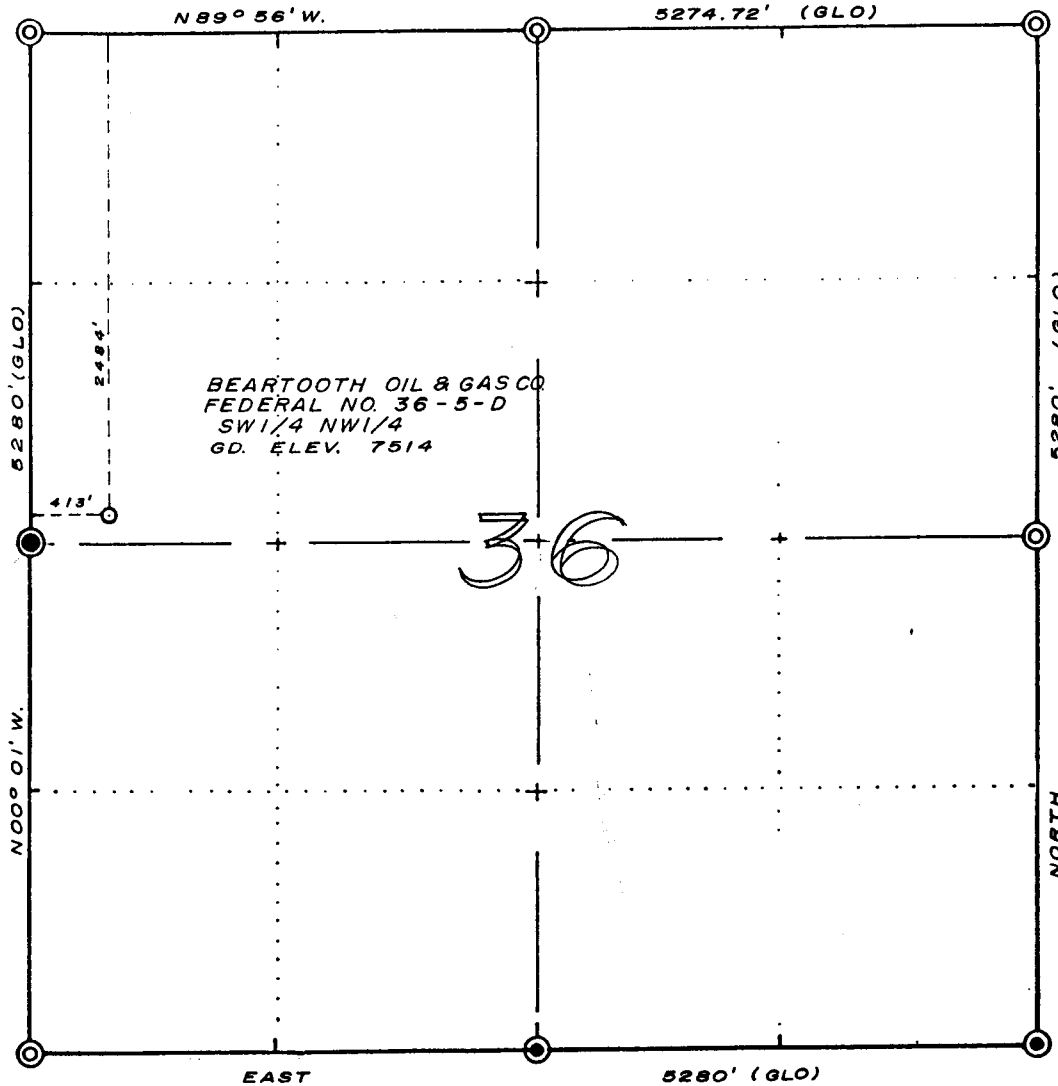
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 7/13/84

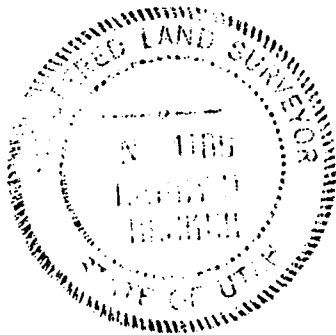
BY: *John K. Dyer*

SEC. 36, T. 15 S., R. 22 E. OF THE S.L.M.

LOCATION PLAT



THIS WELL LOCATION PLAT WAS PREPARED FOR BEARTOOTH OIL & GAS CO.
 TO LOCATE THE FED. # 36-5-D, 2484' F.N. L. &
413' F.W. L. IN THE SW 1/4 NW 1/4, OF SECTION 36, T. 15 S., R. 22 E.
 OF THE S.L.M. UINTAH COUNTY, UTAH



SURVEYOR'S CERTIFICATE

I, LARRY D. BECKER A REGISTERED LAND SURVEYOR IN THE STATE OF UTAH. DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY DIRECT SUPERVISION AND THAT THIS PLAT REPRESENTS SAID SURVEY.

Larry D. Becker

SURVEYED	6-17-64
DRAWN	6-20
CHECKED	6-21

ENERGY
SURVEYS &
ENGINEERING CORP.

715 HORIZON DRIVE, SUITE 330
GRAND JUNCTION, CO. 81501
(303) 245-7221

SCALE 1" = 1000'
JOB NO. BT 1004
SHEET 1 OF 1

**PLAN OF DEVELOPMENT
FOR SURFACE USE FOR THE
BEARTOOTH OIL & GAS COMPANY
FEDERAL NO. 36-5D
SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 36-T15S-R22E
Uintah County, Utah**

1. Existing Roads - a legible map showing:

- A. Proposed well site as staked. (Actual staking should include two each 200-foot directional reference stakes.): See Survey Plat No. 1
- B. Route and distance from nearest town or locatable reference point to where well access route leaves main road: This location is about 40 miles northwest of Mack, CO. It is reached by going west of Mack on Old Highway 6 & 50 until you are 3.2 miles into Utah, turn right and go 27.3 miles up Hay Canyon to the top of Hay Canyon Hill, turn right and go 0.3 mile, turn left and go 1 mile, turn left and go 2.8 miles, out Wirefence Point, turn left and go 0.3 mile, turn left and go 0.8 mile to the location.
- C. Access road(s) to location color-coded or labeled: The access road is colored green on the Vicinity and Topo maps.
- D. If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.): N/A
- E. If development well, all existing roads within a 1-mile radius of wellsite: All existing roads are shown on the Vicinity and Top maps. The roads in the area are a combination of county, ranch and oil field roads. They are all constructed of native materials, no surfacing gravel has been hauled in.
- F. Plans for improvement and/or maintenance of existing roads: Occasional blading is done by producing and pipeline companies in the area. The existing roads will be maintenance bladed by Beartooth. The last 0.8 mile of road will require some minor upgrading.

2. Planned Access Roads

NO NEW ROAD CONSTRUCTION IS PLANNED.

Map showing all necessary access roads to be constructed or reconstructed, showing:

- (1) Width & Disturbance: _____

- (2) Maximum grades: _____
- (3) Turnouts: _____
- (4) Drainage design: Natural drainage; road will follow contour of the land.

- (5) Location and size of culverts and brief description of any major cuts and fills: _____

- (6) Surfacing material: Native material only; no material will be brought in.

- (7) Necessary gates, cattleguards, or fence cuts: _____

- (8) New or reconstructed roads are to be center-line flagged at time of location staking: _____

3. Location of Existing Wells

Two-mile radius map if exploratory, or 1-mile radius map if development well showing and identifying existing (see Well Map No. 3)

- (1) Water wells: None
- (2) Abandoned wells: None
- (3) Temporarily abandoned wells: None
- (4) Disposal wells: None
- (5) Drilling wells: None
- (6) Producing wells: One
- (7) Shut-in wells: None
- (8) Injection wells: None
- (9) Monitoring or observation wells for other resources: None

4. Location of Existing and/or Proposed Facilities

A. Within 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator:

1. Tank batteries: None
2. Production facilities: Separator and meter run at gas well, shown on Well Map, in Section 36-T15S-R22E
- (3) Oil gathering lines: None
- (4) Gas gathering lines: See Well Map for location of Northwest Pipeline gathering system. All lines are buried, except legoffs in and out of canyons.
- (5) Injection lines: None
- (6) Disposal lines: None

(Indicate if any of the above lines are buried.)

B. If new facilities are contemplated, in the event of production, show:

- (1) Proposed location and attendant lines by flagging if off of well pad:

- (2) Dimensions of facilities: See Plat No. 5. Separator 5' x 10', meter run 5' x 8', on drillsite pad and painted green to blend with the environment.

- (3) Construction methods and materials: No materials necessary. All lines will be coated, wrapped, and buried. See Plat No. 5.

- (4) Protective measures and devices to protect livestock and wildlife: A 10' x 10' water pit within 50' of the separator will be fenced. A metal guard or fiberglass shelter will be around the wellhead.

4. Location of Existing and/or Proposed Facilities (Continued)

- C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction is completed: Upon completion of the drilling of this well, all pits will be backfilled and top soil replaced and re-contoured back to original terrain. Upon abandonment, all disturbed areas, including the location and access road, will be re-contoured, ripped or scarified as needed, and re-vegetated using a seed formula as specified by the BLM. Seeding will be done in the fall.
- _____
- _____
- _____

5. Location and Type of Water Supply

- A. Show location and type of water supply either on map or by written description: Water for this well has been purchased from Mr. Bert DeLambert. The pick up point is in Section 6-T16S-R23E.
- _____
- _____
- B. State method of transporting water and show any roads or pipelines needed: Water will be transported by truck over the existing roadways and proposed access.
- _____
- C. If water well is to be drilled on lease, so state. (No APD for water well is necessary, however, unless it will penetrate potential hydrocarbon horizons): No water well is to be drilled.
- _____
- _____

6. Source of Construction Materials

- A. Show information either on map or by written description: No construction materials will be used other than native materials.
- _____
- _____
- B. Identify if from Federal or Indian land: Not applicable.
- _____
- C. Describe where materials, such as sand, gravel, stone, and soil material are to be obtained and used: Soil from cuts will be used for fills. No outside material will be brought in.
- _____
- _____
- D. Show any needed access roads crossing Federal or Indian lands under Item 2:
- _____
- _____

7. Methods for Handling Waste Disposal

Describe methods and location of proposed containment and disposal of waste material, including:

- (1) Cuttings: Cuttings will be buried in the reserve pit.
- _____
- _____
- (2) Drilling fluids: Drilling fluids will be handled in the reserve pit and left to evaporate.
- _____
- _____
- (3) Produced fluids (oil, water): Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt water or other noxious fluids will be cleaned up and removed. If well is productive, produced water will be disposed of onsite for 30 days only, or 90 days with permission of District Manager. After that time, application will be made for approval of permanent disposal method in compliance with NTL-2b, and the rules and regulations of the State of Utah.
- _____
- _____

7. Methods for Handling Waste Disposal (Continued)

- (4) Sewage: Human waste will be disposed of in chemically treated sanitary pits.
- (5) Garbage and other waste material (trash pits should be fenced with small mesh wire to prevent wind scattering trash before being burned or buried): Garbage, waste, salts and other chemicals produced during drilling or testing will be handled in a trash cage. The trash cage will be totally enclosed with small mesh wire to prevent wind scattering trash before being removed. Reserve pit will be fenced on 3 sides during drilling and closed off on the 4th side at the time of rig release.
- (6) Statement regarding proper cleanup of wellsite area when rig moves out: Drilling fluid in pit, which will be very minimal due to air drilling, will be left to dry, if necessary. After pit area is sufficiently dry, cuttings will be pushed into pit and sub-soil placed on top of any remaining fluid and cuttings; then top soil will be used to cover both pit and location area.

8. Ancillary Facilities

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods. (Camp center and airstrip center lines to be staked on the ground): The existing airstrip in Section 5-T16S-R23E, will be maintenance bladed to accomodate emergency parts flights. The strip will be used on an as needed basis.

9. Wellsite Layout

A plat (not less than 1" = 50') showing:

- (1) Cross sections of drill pad with cuts and fills: See Plat No. 3
- (2) Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities, and soil material stockpiles: See Plats No. 2
The reserve pit will be constructed to accomodate the additional mud volumes required for directional drilling
- (3) Rig orientation, parking areas and access roads: See Plat No. 4
- (4) Statement as to whether pits are to be lined or unlined. (Approval as used in this section means field approval of location. All necessary staking of facilities may be done at the time of field inspection. A registered surveyor is not mandatory for such operations): Pits will be unlined.

10. Plans for Restoration of Surface

State restoration program upon completion of operations, including:

- (1) Backfilling, leveling, contouring and waste disposal; segregation of spoils materials as needed: If well is abandoned, site will be restored to original condition as nearly as possible. Backfilling, levelling, and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately to an approved sanitary land fill after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- (2) Revegetation and rehabilitation, including access roads (normally per BLM recommendations): The soil banked material will be spread over the area. Re-vegetation will be accomplished by planting mixed grasses as per BLM specifications and State of Utah specifications.
- (3) Prior to rig release, pits will be fenced and so maintained until clean-up: Three sides of the reserve pit will be fenced during drilling and closed off on the 4th side following rig release to prevent livestock or wildlife from entering; and the fencing will be maintained until leveling and cleanup are accomplished. The pit fence will be constructed with mesh wire.

10. Plans for Restoration of Surface (Continued)

- (4) If oil on pit, remove oil or install overhead flagging: If any oil is on the pits and is not immediately removed or burned after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.
- (5) Timetable for commencement and completion of rehabilitation operations: The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and re-vegetation is considered best in the fall, between Sept. 15 and Nov. 15.

11. Other Information

General description of:

- (1) Topography, soil characteristics, geologic features, flora and fauna: The location is on top of a ridge. The area is at the edge of an old fire burn. Soils are shallow and rocky. The vegetation consists of Douglas fir and pinyon pine trees with a mixed grass and sagebrush understory.
- (2) Other surface use activities and surface ownership of all involved lands: The location is on State of Utah land. The bottom hole of this directional well is on Federal land. The bottom hole will be under a portion of the lease inside the BLM Winter Ridge Wilderness Study Area
- (3) Proximity of water, occupied dwellings, archeological, historical or cultural sites: The nearest occupied dwelling and live water is in Main Canyon about 1.3 miles to the east of the wellsite.
- A cultural resource survey has been completed and the report is being filed with the BLM in Vernal.

12. Lessee's or Operator's Representative

Include the name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan:

James G. Routson
Beartooth Oil & Gas Company
P. O. Box 2564
Billings, MT 59103
Office Ph: 406-259-2451
Home Ph: 406-245-8797

Ken Currey
Box 1491
Fruita, CO 81521
Mobile Phone: 303-245-3660 Unit 5858
Home Ph: 303-858-3257

13: Certification

The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Beartooth Oil & Gas Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

7/6/84
Date

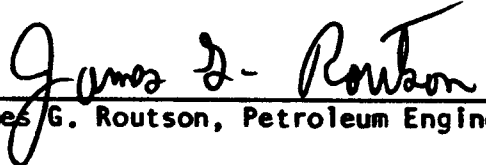
Ken Currey

WELL CONTROL PLAN

1. Surface Casing: 9-5/8" O.D., 32.3 #/ft., Grade H-40, Short T&C, set at 300' or deeper, cemented with pump and plug method back to the surface or bottom of cellar.
2. Casinghead Flange: 9-5/8" x 10" - 900 series casinghead with two 2" 2000 psi L.P. outlets.
3. Intermediate Casing: 7", 23#, K-55, set at 5160' and cemented with 150 sacks. The intermediate spool will be 10" - 900 x 10" - 900 series with two 2" 2000 psi L.P. outlets.
4. Blowout Preventor: A 10" 3000 psig W.P. double gate hydraulic shaffer BOP (or equivalent) with drill pipe rams and blind rams. All fill, kill and choke lines will be minimum of 2" 2000 psi W.P. A Grant rotating head will be used while air and mist drilling. A new rubber will be installed prior to drilling through the Dakota. BOP's will be worked daily. Blind rams will be checked during trips. BOP's will be tested to 2000 psi prior to drilling shoe joint on surface casing and intermediate casing.
5. Auxiliary Equipment: (a) Drill pipe floats will be allowed at contractor's discretion. (b) Visual monitoring of air returns will be maintained. (c) Upper kelly cock will be used. (d) Stabbing valve will be kept on floor.
6. Anticipated bottom hole pressure is less than 2000 psi at 3500 or a gradient of .235 psi/ft or less. No abnormal temperatures or hydrogen sulfide gas is sufficient.

BEARTOOTH OIL & GAS COMPANY

By:

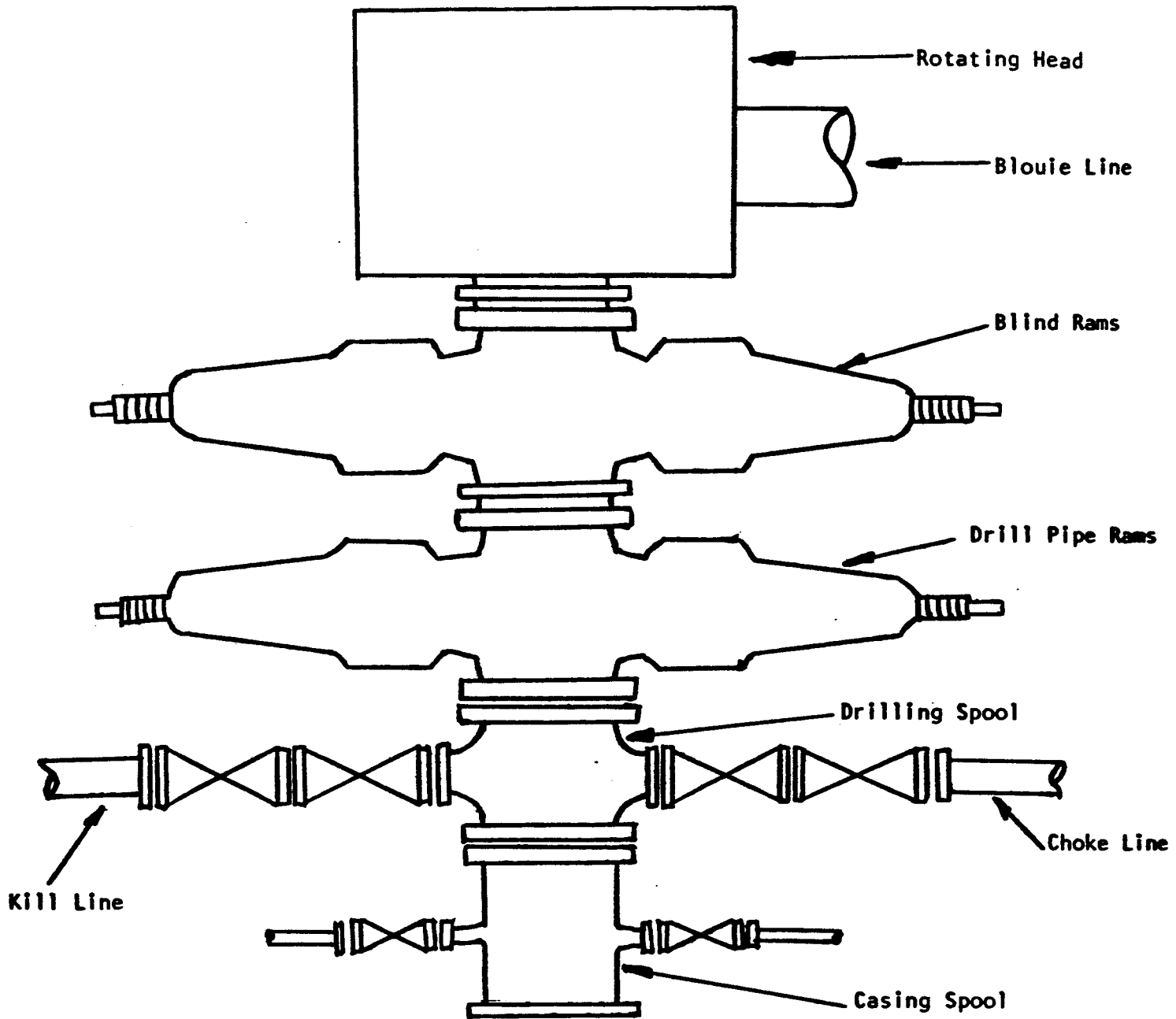

James G. Routson, Petroleum Engineer

SCHEMATIC OF BOP STACK

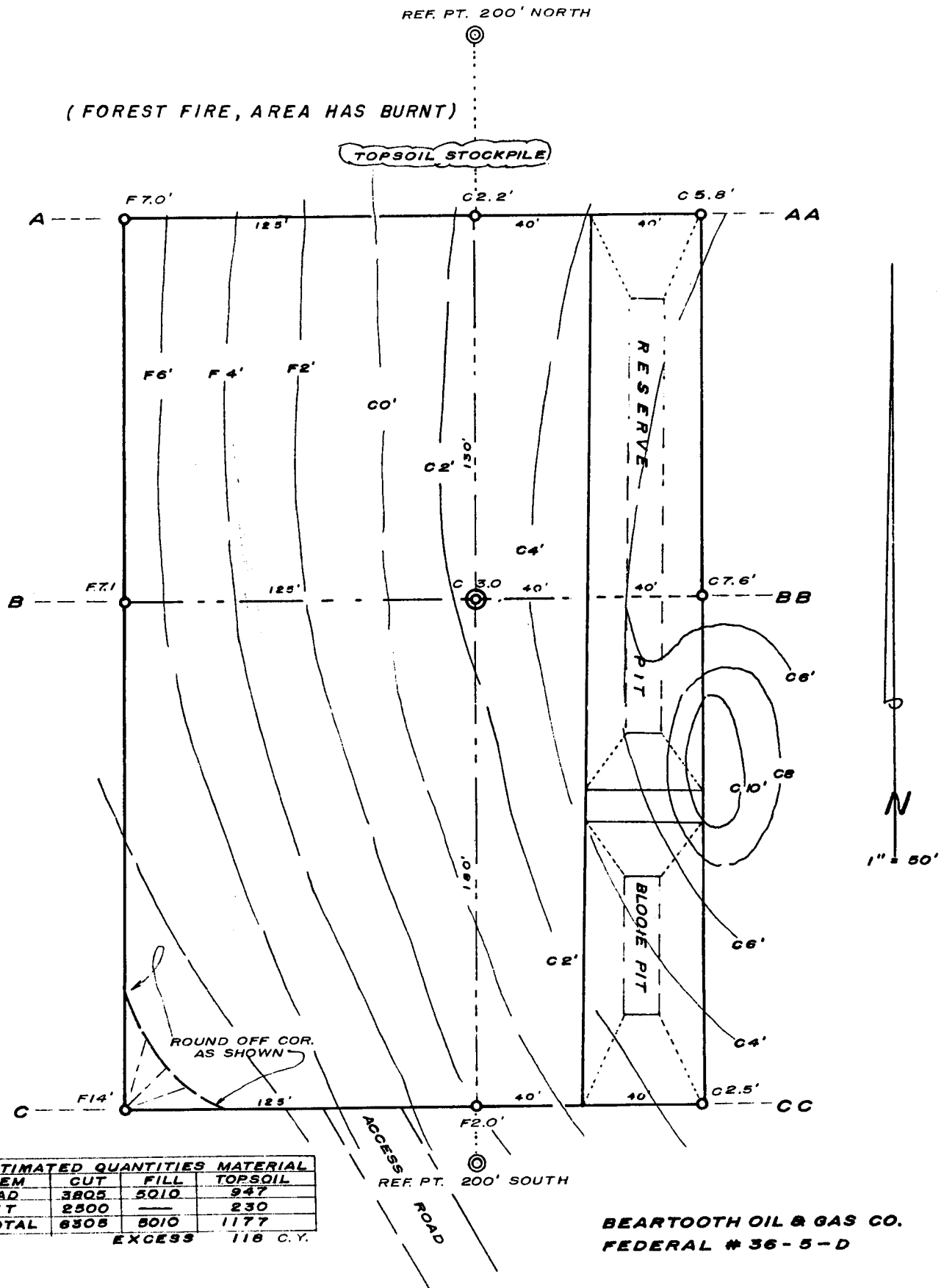
FEDERAL NO. 36-5D

Air drilled wells using 900 series wellhead equipment.

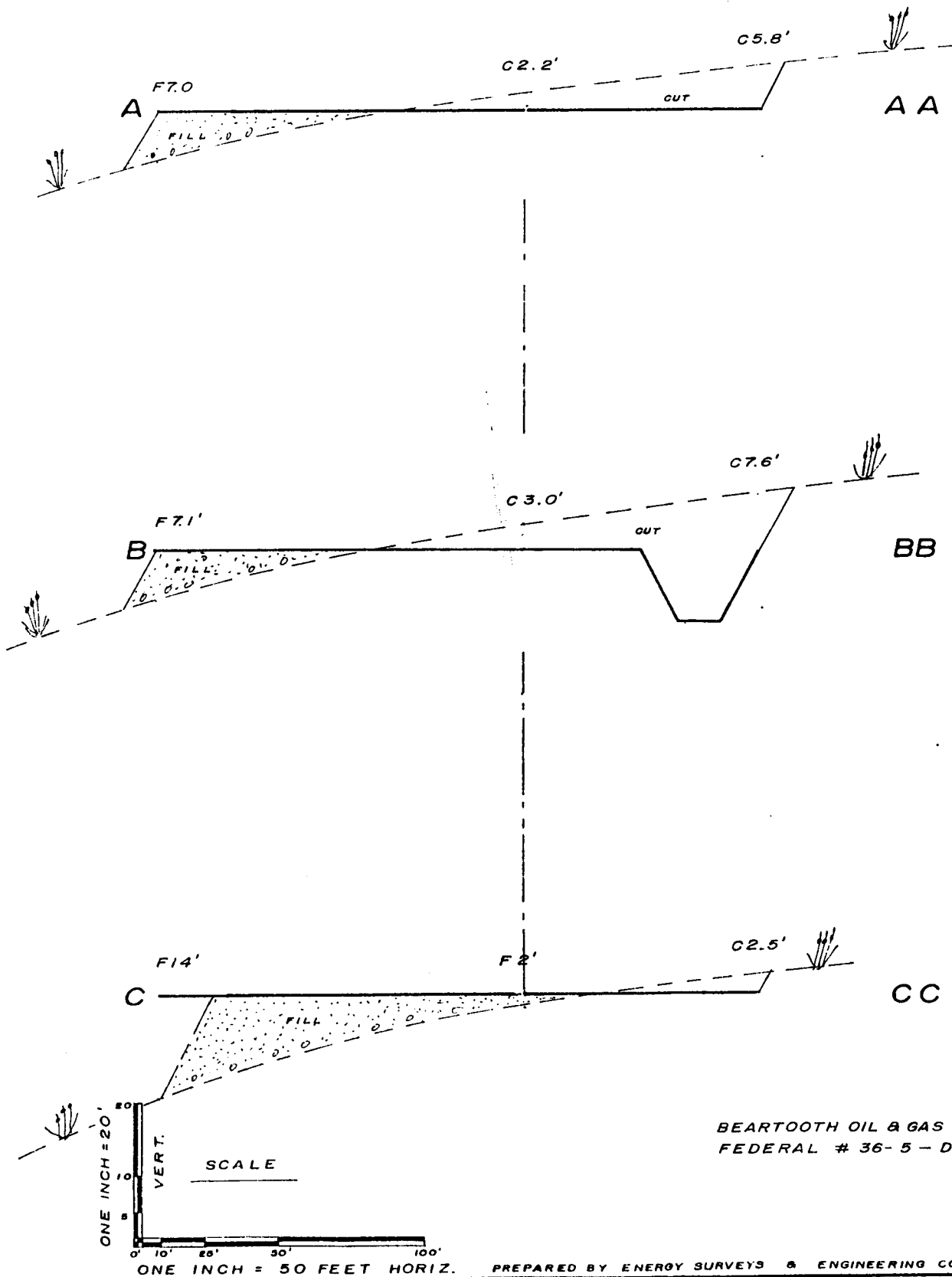
Interval from 300' to total depth.



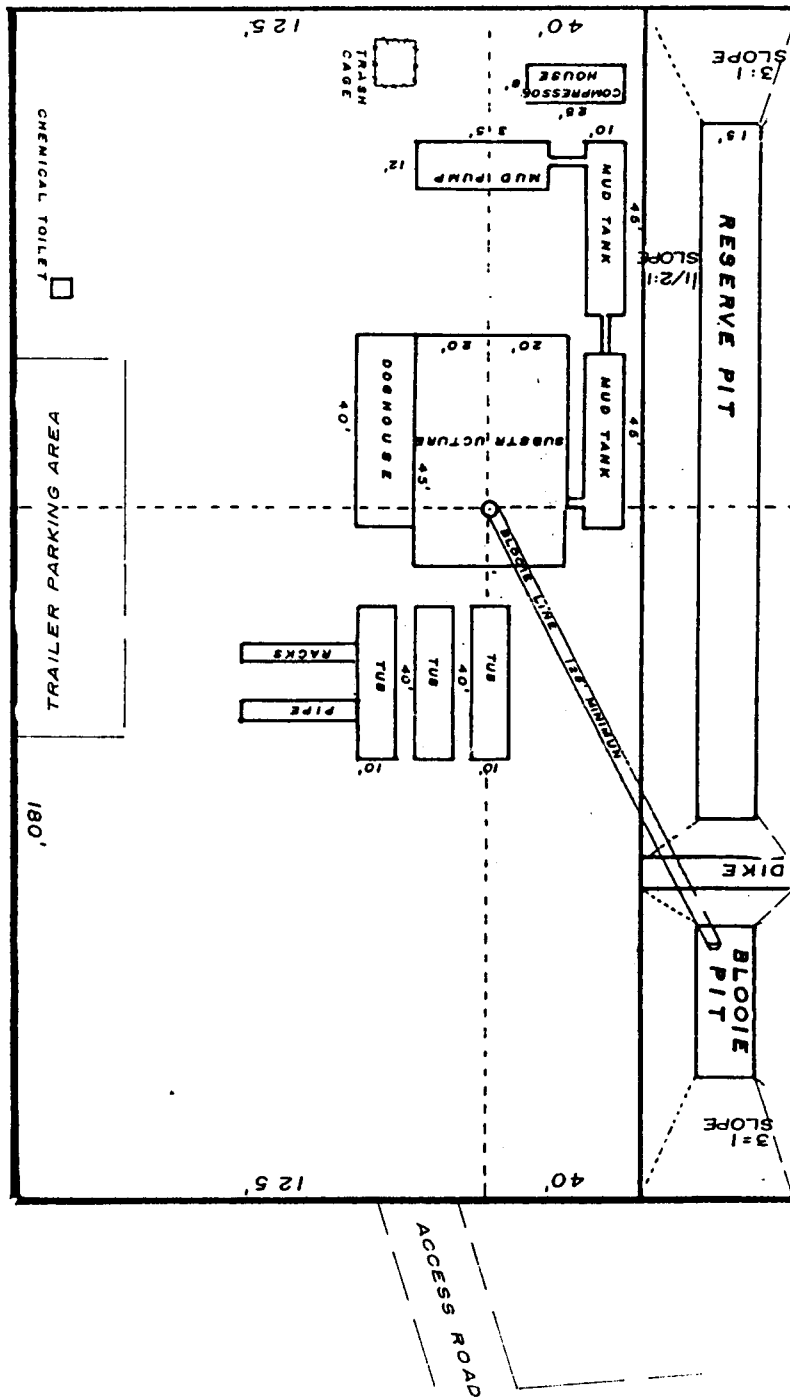
PLAT NO. 2
PIT & PAD LAYOUT



CROSS-SECTIONS OF PIT & PAD



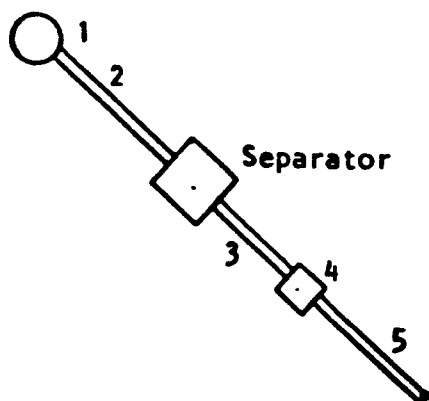
PLAT # 4
RIG LAYOUT



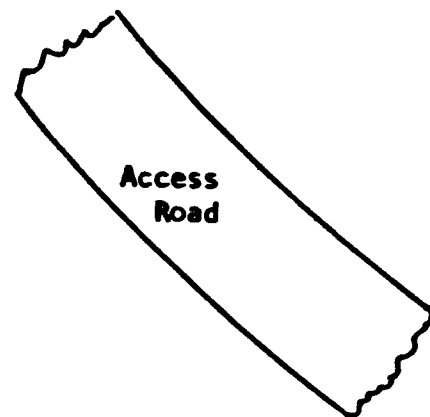
BEARTOOTH OIL & GAS CO.
FEDERAL # 36-5-D

FACILITIES PLAT NO. 5

Federal No. 36-5D

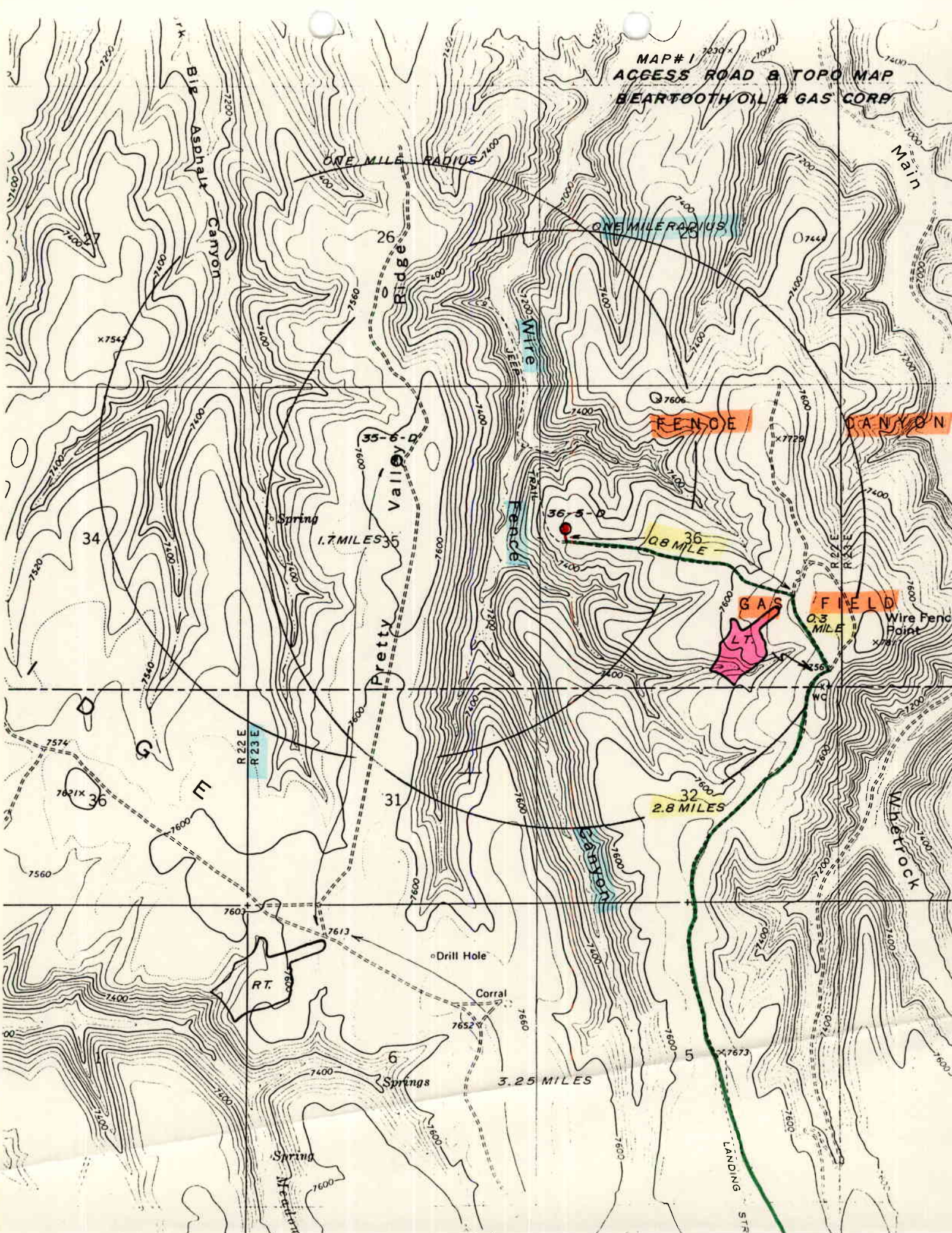


6

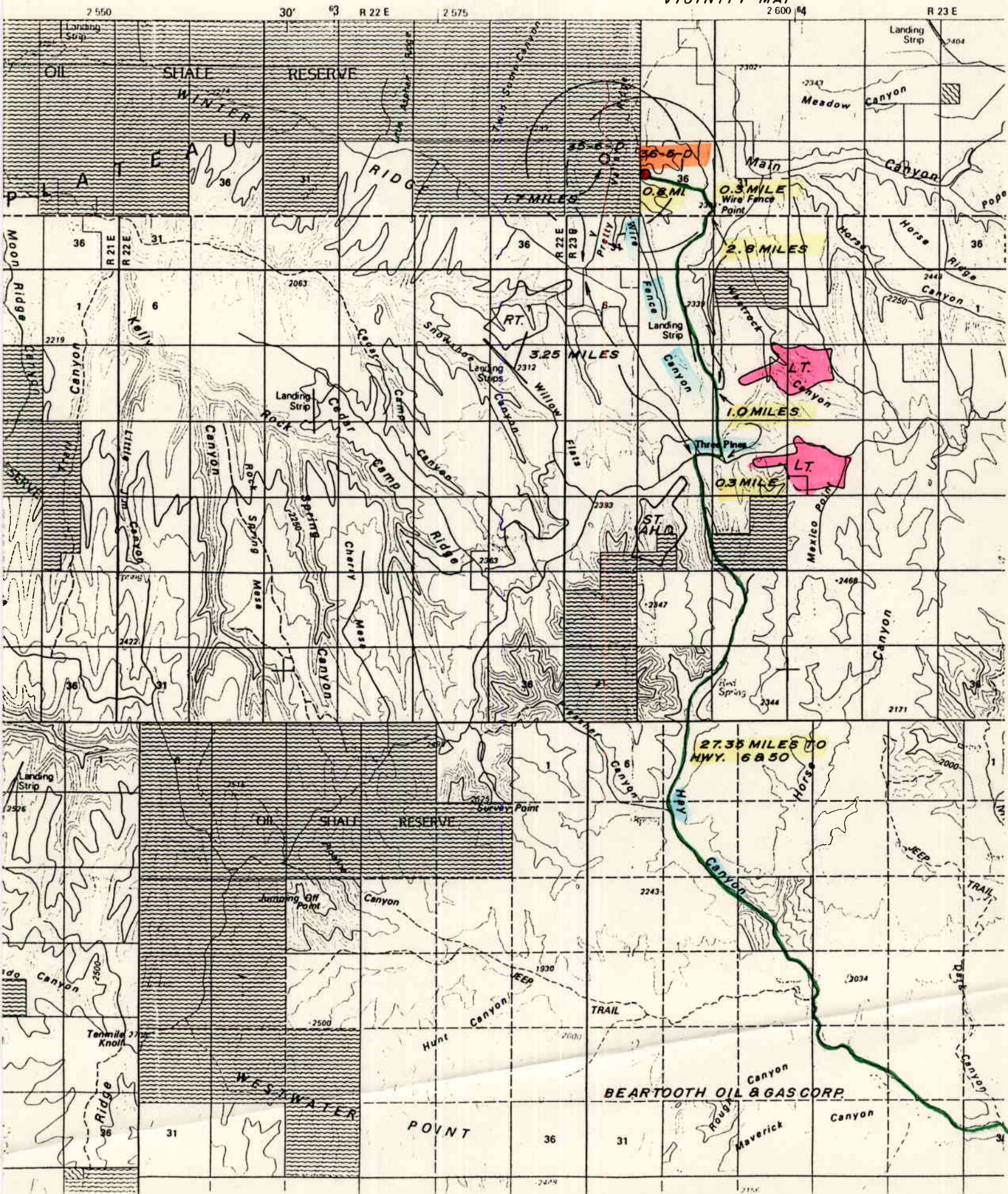


1. Wellhead will be a 6" - 900 series flanged top. Tubing head will be 10" - 900 x 6" - 5000 psi with two 2" 5000 psi flanged valves. Tree will be 2" screwed x 3000 psi W.P.
2. Line between wellhead and separator will be approximately 100 feet in length and constructed of 2-3/8" .218 wall seamless, welded, wrapped and buried approximately 5 feet deep.
3. Line between separator and meter will be 4" or 4.028 OD seamless, welded, coated, wrapped and buried, and will be approximately 25 feet in length.
4. Meter run will be American 2" run, 500 psi static rating, 200' of water differential rating.
5. Line between meter run and NW Pipeline gathering system not yet designed.
6. Pit, if necessary, will be 8' x 8', enclosed by dikes and fenced.

MAP #1
ACCESS ROAD & TOPO MAP
BEARTOOTH OIL & GAS CORP



MAP NO. 2
VICINITY MAP



R22E

WELL MAP - MAP NO. 3

R23E

T
15
ST
15
SChorney 1-28 Fed.
(10-72)Texaco 2 Unit
(8-61)Coseka 7-30 Fed.
(7-82)
Beartooth Fed. 25-16TXO 1 Duncan Pld.
(8-81)Mtn. Fuel
1 Main Canyon
(9-69)TXO Squier 1
(11-81)Coseka 11-32 State
(7-82)

R = 1 Mile

Texaco 1 Unit
(4-60)
Surface
location
TD locationTexaco 3 Unit
(9-61)TXO State 1
(6-81)LAWSON COUNTY
GRAND COUNTYT
15 1/2
ST
15
SPacific Nat.
1 Cherry Canyon
(9-64)TXO State 1
(11-83)T
16
S

R22E

R23E

OPERATOR Beartooth Oil & Gas Co.

DATE 7/11/84

WELL NAME Fed. 36-50

^{Surface}
SEC SWNW 36-

T 15S

R 22E

COUNTY Utah

BHL NE SE 35

43-047-31511

API NUMBER

Fed.

TYPE OF LEASE

POSTING CHECK OFF:

☐

INDEX

☐

HL

☐☐

NID

☐

PI

☐☐

MAP

☐☐

PROCESSING COMMENTS:

& under Cause # 149-24
Need water permit

APPROVAL LETTER:

SPACING:

☐

A-3

UNIT

☒

c-3-a

149-24 5/24/84
CAUSE NO. & DATE

☐

c-3-b

☐

c-3-c

SPECIAL LANGUAGE:

1- Water
2- Directional info.

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☒ ORDER 149-14

☐ UNIT _____

☐ c-3-b

☐ c-3-c

☒ CHECK DISTANCE TO NEAREST WELL.

☐ CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

☒ IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

July 13, 1984

Beartooth Oil & Gas Company
P. O. Box 2564
Billings, Montana 59103

RE: Well No. Federal #36-5D
(Surf) SWAN 36, T. 15S, R. 22E
2484' FNL, 413' FWL
(BHL) NESE 35, T. 15S, R. 22E
1980' FSL 660' FEL
Utah County, Utah

Gentlemen:

Approval to drill the above referenced gas well is hereby granted in accordance with Order of Cause No. 149-23 dated May 24, 1984 subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.
2. Submittal of directional drilling data upon completion of drilling operations to properly ascertain the location of the producing formation.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (301) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.

Page 2
Beartooth Oil & Gas Company
Well No. Federal 36-5D
July 13, 1984

4. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-31511.

Sincerely,


M. J. Firth
Associate Director, Oil & Gas

RJF/as

cc: Branch of Fluid Minerals

Enclosures

BEARTOOTH OIL & GAS COMPANY

P.O. Box 2564
Billings, Montana 59103
(406) 259-2451

October 16, 1984

RECEIVED

OCT 18 1984

**DIVISION OF OIL
GAS & MINING**

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

Re: Federal No. 36-5D
SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 36-T15S-R22E
Uintah County, Utah

Gentlemen:

Enclosed is a Sundry Notice outlining proposed changes in the hole size and casing and cementing program for the above referenced well. The larger hole is being drilled to facilitate using a 7-7/8" bit on the directional portion of the hole instead of the original proposal of a 6-1/4" bit. All other features of the APD remain the same.

If you have any questions, please call.

Yours very truly,

BEARTOOTH OIL & GAS COMPANY

James G. Routson

James G. Routson
Petroleum Engineer

JGR/gb

cc: Oil, Gas and Mining Division
4241 State Office Building
Salt Lake City, Utah 84114

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" Form 3160-1)

RECEIVED

OCT 18 1984

DIVISION OF OIL
GAS & MINING

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	2. NAME OF OPERATOR Beartooth Oil & Gas Company	3. ADDRESS OF OPERATOR P. O. Box 2564, Billings, Montana 59103	4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2484' FNL, 413' FWL Sec. 36-T15S-R22E At Dakota: 1980' FSL, 660' FEL Sec. 35-T15S-R22E	5. LEASE DESIGNATION AND SERIAL NO. U-44434	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	7. UNIT AGREEMENT NAME	8. FARM OR LEASE NAME Federal	9. WELL NO. 36-5D	10. FIELD AND POOL, OR WILDCAT Fence Canyon	11. SEC., T., R., M., OR BLK. AND SUBST OR AREA Surface location SW 1/4 NW 1/4 36-15S-22E	12. COUNTY OR PARISH Uintah	13. STATE Utah
14. PERMIT NO. UT-080-4-M-247	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7514' GL, 7525' KB											

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATION: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well will be directionally drilled, and to facilitate the use of larger bits and allow for swelling clays in the Wasatch formation, Item No. 23, Proposed Casing and Cementing Program has been changed to the following:

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" new	54.50# H-40	300'	350 sx "G", 3% CaCl ₂ (to surface)
11"	8-5/8" new	24# J-55	2800' *	200 sx "C", 2% CaCl ₂
7-7/8"	4-1/2" new	11.6# N-80	9100'	275 sx 10-0 RFC

* The 8-5/8" casing will not be run if no problems are encountered in the Wasatch formation. The hole size will be reduced to 7-7/8" at 2800' and drilling will continue.

All casinghead equipment has been changed in size only - pressure ratings remain the same.

18. I hereby certify that the foregoing is true and correct

SIGNED

James G. Routson

TITLE Petroleum Engineer

DATE 10/16/84

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

*See Instructions on Reverse

DATE: 10/23/84

BY: John R. Day

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-047-31511

NAME OF COMPANY: Beartooth Oil & GasWELL NAME: Federal #36-5D(SURF) NE SE 35
SECTION BHL SW NW34 TOWNSHIP 15S RANGE 22E COUNTY UintahDRILLING CONTRACTOR VecoRIG # 6SPUDDED: DATE 11-3-84TIME 9:30 AMHow Rotary

DRILLING WILL COMMENCE _____

REPORTED BY GraceTELEPHONE # (406) 259-2451DATE 11-5-84 SIGNED GL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		6. LEASE DESIGNATION AND SERIAL NO. U-44434
2. NAME OF OPERATOR Beartooth Oil & Gas Company		7. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 2564, Billings, Montana 59103		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2484' FNL, 413' FWL Sec. 36-T15S-R22E At Dakota: 198' FSL, 660' FEL Sec. 35-T15S-R22E		8. FARM OR LEASE NAME Federal
14. PERMIT NO. 43-047-31511		9. WELL NO. 36-5D
15. ELEVATIONS (Show whether DP, RT, GR, etc.) 7514' GL, 7525' KB		10. FIELD AND POOL, OR WILDCAT Fence Canyon
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Surface location SW $\frac{1}{4}$ NW $\frac{1}{4}$ 36-15S-22E
		12. COUNTY OR PARISH Uintah
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other) _____	REPAIRING WELL
(Other) _____	<input type="checkbox"/>		ALTERING CASING
PULL OR ALTER CASING	<input type="checkbox"/>		ABANDONMENT*
MULTIPLE COMPLETE	<input type="checkbox"/>		
ABANDON*	<input type="checkbox"/>		
CHANGE PLANS	<input type="checkbox"/>		

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded with Veco Drilling Company Rig No. 6 at 9:30 AM 11/3/84.

Drilled 17-1/2" hole to 339'. Ran 8 joints of 13-3/8", 61#, J-55 casing to 325' KB. Cemented with 350 sacks Class "G", 2% CaCl₂, 1/4# celloflake/sack. Plug down at 5:00 PM 11/4/84. Good cement to surface

RECEIVED

NOV 09 1984

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Grace E. Brown

TITLE Drilling Department

DATE 11-7-84

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____ DATE _____

*See Instructions on Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
INSPECTION RECORD

092680

P-11
12.17.84

Operator Bearfoot 0 3/4 Lease U-44434
Contractor _____
Well No. Federal 36-5D
Location NESE 35 bottom, SWNW Sec. 36 T. 15S R. 22E
Field Fence Canyon
County Utah State UT
Operation: Drilling _____
Workover _____
Completion _____
Abandonment _____
Producing _____
Other Luc

Individual Well Inspection

General:

Well Sign ☒ BOP NA Pollution control ☒
Housekeeping ☒ Safety ☒ Surface use ☒ Marker NA
Location ☒

Remarks: Location graded, site in sandy clay silt

Lease and Facilities Inspection

Facilities inspected:

Identification	_____	Pollution control	_____
Housekeeping	_____	Pits and ponds	_____
Measurement facilities	_____	Water disposal	_____
Storage and handling facilities	_____	Other	_____

Remarks: _____

Action: _____

Name W. J. Moore Title Inspector Date 10/30/84

Use: ☒ for yes or satisfactory
x for no or unsatisfactory
NA for not applicable

April 5, 1984



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

RECEIVED
DEC 26 1984

DIVISION OF
OIL, GAS & MINING

BEARTOOTH OIL AND GAS COMPANY
COMPANY

FEDERAL 36-5D
WELL NAME

UINTAH COUNTY, UTAH
LOCATION

JOB NUMBER

RM1184 D1145

TYPE OF SURVEY

COMPLETION REPORT

DATE

17-DEC-84

SURVEY BY
DAVE REUST

OFFICE
RM 410

BEARTOOTH OIL AND GAS COMPANY
WELL NAME: FEDERAL 36-5D
LOCATION: Uintah County, Utah
FILE NO.: A4-310
START DATE: 09-NOV-84
JOB NO.: RM1184 D1145
TYPE: SINGLE SHOT
SURVEYOR: Dave Reust D.D.S.
DECLINATION: 14 EAST
COMPUTER OPERATOR: ANN HEBERLEIN

COMPLETION REPORT

VERTICAL SECTION CALCULATED IN PLANE: S 50 45 26 W

VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL
DIRECTION: S 50 45 W

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

BEARTOOTH OIL AND GAS COMPANY
WELL NAME: FEDERAL 36-5D
LOCATION: UTAH COUNTY, UTAH

COMPLETION REPORT

COMPUTATION
TIME DATE
15:03:26 17-DEC-84

PAGE NO. 1

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET	DOUBLE SEVERITY DG/100FT
0	0 0	0 0	0.00	0.00	0.00	0.00 0.00	0.00
2500	0 0	0 0	2500.0	2500.00	0.00	0.00 0.00	0.00

ASSUMED VERTICAL TO 2500 MD

2960	1 0	N 78 0 E	460.00	2959.98	-3.57	0.83 N 3.92 E	0.1
3026	1 0	S 4 0 E	66.00	3025.97	-3.81	0.22 N 4.74 E	2.2
3057	2 0	S 25 0 W	31.00	3056.96	-3.20	0.57 S 4.59 E	3.95
3089	3 0	S 34 0 W	32.00	3088.92	-1.90	1.78 S 3.90 E	3.35
3120	4 0	S 44 0 W	31.00	3119.87	-0.05	3.25 S 2.71 E	3.77
3209	7 0	S 52 0 W	89.00	3208.45	8.47	8.95 S 3.62 W	3.47
3272	8 0	S 51 0 W	63.00	3270.91	16.69	14.07 S 10.05 W	1.60
3365	9 30	S 51 0 W	93.00	3362.82	30.84	22.97 S 21.03 W	1.61
3458	11 15	S 46 0 W	93.00	3454.30	47.57	34.07 S 33.59 W	2.11
3550	12 30	S 46 0 W	92.00	3544.33	66.43	47.22 S 47.21 W	1.36
3645	14 0	S 44 0 W	95.00	3636.80	88.09	62.61 S 62.60 W	1.65
3737	15 0	S 44 0 W	92.00	3725.86	110.97	72.18 S 78.60 W	1.09
3831	16 45	S 42 0 W	94.00	3816.28	136.44	97.99 S 96.14 W	1.95
3956	18 45	S 42 0 W	125.00	3935.32	174.11	126.31 S 121.64 W	1.60
4055	18 45	S 39 0 W	99.00	4029.06	205.42	150.50 S 142.30 W	0.1
4180	18 0	S 41 0 W	125.00	4147.69	244.13	180.68 S 167.63 W	0.78
4304	17 0	S 39 0 W	124.00	4265.95	280.76	209.25 S 191.59 W	0.94
4460	16 0	S 39 0 W	156.00	4415.52	324.14	243.68 S 219.48 W	0.64
4552	16 0	S 40 0 W	92.00	4503.96	349.01	263.25 S 235.61 W	0.30
4613	16 30	S 40 0 W	61.00	4562.52	365.78	276.32 S 246.58 W	0.82
4704	17 30	S 38 0 W	91.00	4649.55	391.83	297.00 S 263.32 W	1.27
4826	18 0	S 36 0 W	122.00	4765.74	427.95	326.70 S 285.70 W	0.65
4920	19 0	S 28 0 W	94.00	4854.88	456.17	351.97 S 301.50 W	2.90
4981	19 30	S 25 0 W	61.00	4912.47	474.51	369.97 S 310.47 W	1.82
5010	19 30	S 25 0 W	29.00	4939.80	483.22	378.74 S 314.56 W	0.00
5041	19 0	S 30 0 W	31.00	4969.07	492.61	387.80 S 319.28 W	5.55

BEARTOOTH OIL AND GAS COMPANY
WELL NAME: FEDERAL 36-50
LOCATION: UINTAH COUNTY, UTAH

COMPLETION REPORT

COMPUTATION
TIME DATE
15:03:26 17-DEC-84

PAGE NO. 2

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET	DOGLEG SEVERITY DG/100FT
5071	17 0	S 33 0 W	30.00	4997.60	501.36	395.71 S 324.12 W	7.35
5090	16 30	S 30 0 W	19.00	5015.80	506.53	400.38 S 326.93 W	5.26
5162	14 0	S 37 0 W	72.00	5085.25	524.61	416.16 S 337.43 W	4.31
5222	12 30	S 50 0 W	60.00	5143.66	538.27	426.11 S 346.97 W	5.54
5253	12 0	S 60 0 W	31.00	5173.95	544.77	429.88 S 352.25 W	7.02
5284	12 30	S 64 0 W	31.00	5204.24	551.22	432.97 S 358.06 W	3.1
5349	14 0	S 70 0 W	65.00	5267.51	565.51	438.78 S 371.77 W	3.13
5387	15 30	S 75 0 W	38.00	5304.26	574.50	441.69 S 380.99 W	5.17
5450	15 30	S 73 0 W	63.00	5364.97	589.76	446.33 S 397.17 W	0.85
5543	15 0	S 72 0 W	93.00	5454.69	612.69	453.69 S 420.50 W	0.41
5571	15 0	S 70 0 W	28.00	5481.74	619.48	456.05 S 427.35 W	1.85
5602	16 30	S 75 0 W	31.00	5511.57	627.30	458.58 S 435.38 W	6.52
5634	17 45	S 79 0 W	32.00	5542.15	635.75	460.70 S 444.56 W	5.37
5726	20 0	S 84 0 W	92.00	5629.20	661.31	465.09 S 473.98 W	3.01
5817	20 0	S 84 0 W	91.00	5714.71	687.34	468.35 S 504.93 W	0.00
5910	19 0	S 84 0 W	93.00	5802.38	713.30	471.59 S 535.81 W	1.08
6004	17 45	S 84 0 W	94.00	5891.58	738.08	474.69 S 565.28 W	1.33
6128	13 0	N 88 0 W	124.00	6011.11	764.23	475.84 S 598.10 W	4.19
6153	12 30	N 89 0 W	25.00	6035.49	768.41	475.69 S 603.61 W	2.19
6185	12 15	S 81 0 W	32.00	6066.75	774.00	476.17 S 610.45 W	6.1
6215	12 30	S 81 0 W	30.00	6096.05	779.55	477.17 S 616.80 W	0.83
6246	13 0	S 82 0 W	31.00	6126.29	785.43	478.19 S 623.56 W	1.76
6277	13 30	S 84 0 W	31.00	6156.46	791.44	479.05 S 630.61 W	2.19
6349	13 0	S 87 0 W	72.00	6226.55	805.00	480.35 S 647.06 W	1.13
6380	11 45	S 75 0 W	31.00	6256.83	810.73	481.38 S 653.61 W	9.20
6411	12 30	S 75 0 W	31.00	6287.13	816.66	483.07 S 659.90 W	2.42
6442	14 0	S 76 0 W	31.00	6317.31	823.12	484.85 S 666.78 W	4.89
6473	15 15	S 80 0 W	31.00	6347.30	830.07	486.47 S 674.44 W	5.18
6504	16 30	S 87 0 W	31.00	6377.12	837.20	487.43 S 682.86 W	7.37
6535	17 30	S 83 0 W	31.00	6406.76	844.69	488.22 S 691.83 W	4.96

BEARTOOTH OIL AND GAS COMPANY
WELL NAME: FEDERAL 34-5D
LOCATION: UINTAH COUNTY, UTAH

COMPLETION REPORT

COMPUTATION
TIME DATE
15:03:26 17-DEC-84

PAGE NO. 1

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET		DOGLEG SEVERITY DG/100FT
6566	17 30	S 79 O W	31.00	6436.33	852.74	489.68 S	701.02 W	3.88
6597	19 0	S 76 O W	31.00	6465.77	861.41	491.78 S	710.56 W	5.71
6627	20 0	S 71 O W	30.00	6494.05	870.64	494.63 S	720.16 W	6.48
6658	21 15	S 67 O W	31.00	6523.06	881.01	498.54 S	730.35 W	6.07
6689	22 45	S 61 O W	31.00	6551.80	892.31	503.63 S	740.79 W	8.71
6720	23 15	S 56 O W	31.00	6580.34	904.31	509.93 S	751.11 W	6.5
6763	24 45	S 55 O W	43.00	6619.62	921.73	519.86 S	765.52 W	3.61
6792	24 45	S 55 O W	29.00	6645.96	933.84	526.82 S	775.47 W	0.00
6854	24 45	S 55 O W	62.00	6702.26	959.73	541.71 S	796.73 W	0.00
6948	25 0	S 56 O W	94.00	6787.54	999.13	564.11 S	829.32 W	0.52
7043	25 0	S 58 O W	95.00	6873.64	1039.04	585.97 S	862.99 W	0.89
7136	25 0	S 59 O W	93.00	6957.93	1077.99	606.51 S	896.50 W	0.45
7229	26 0	S 60 O W	93.00	7041.87	1117.56	626.83 S	931.00 W	1.17
7322	26 0	S 62 O W	93.00	7125.45	1157.67	646.59 S	966.65 W	0.24
7416	27 0	S 64 O W	94.00	7209.58	1198.66	665.63 S	1004.02 W	1.43
7503	26 15	S 63 O W	87.00	7287.35	1236.68	683.03 S	1038.91 W	1.00
7597	25 0	S 64 O W	94.00	7372.10	1276.33	701.17 S	1075.29 W	1.41
7689	23 45	S 64 O W	92.00	7455.90	1313.29	717.81 S	1109.42 W	1.36
7813	21 30	S 66 O W	124.00	7570.35	1359.52	737.97 S	1152.65 W	1.92
7940	20 0	S 67 O W	127.00	7689.11	1402.82	755.91 S	1193.91 W	1.2
8065	18 0	S 70 O W	125.00	7807.29	1441.58	770.82 S	1231.77 W	1.78
8190	15 30	S 72 O W	125.00	7926.98	1475.37	782.55 S	1265.82 W	2.05
8313	13 0	S 74 O W	123.00	8046.19	1503.39	791.40 S	1294.77 W	2.07
8436	11 0	S 76 O W	123.00	8166.49	1526.70	798.02 S	1319.47 W	1.66
8566	9 15	S 81 O W	130.00	8294.46	1546.92	802.57 S	1341.86 W	1.51
8652	6 0	S 53 O W	86.00	8379.69	1557.65	806.54 S	1352.48 W	3.11
8781	2 45	S 39 O W	129.00	8508.30	1567.44	813.03 S	1359.81 W	2.73
8911	2 30	S 36 O W	130.00	8638.16	1573.24	817.76 S	1363.44 W	0.22
9035	2 0	S 33 O W	124.00	8762.07	1577.91	821.77 S	1366.19 W	0.41

PROJECTED TO T.D.

BEARTOOTH OIL AND GAS COMPANY
WELL NAME: FEDERAL 36--50
LOCATION: UINTAH COUNTY, UTAH

COMPLETION REPORT

COMPUTATION
TIME DATE
15:03:26 17-DEC-84

PAGE NO. 4

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTANGULAR COORDINATES FEET	DOGLEG SEVERITY DG/100FT
9435	2 0	S 33 0 W	400.00	9161.82	1591.20	833.48 S 1373.80 W	0.00

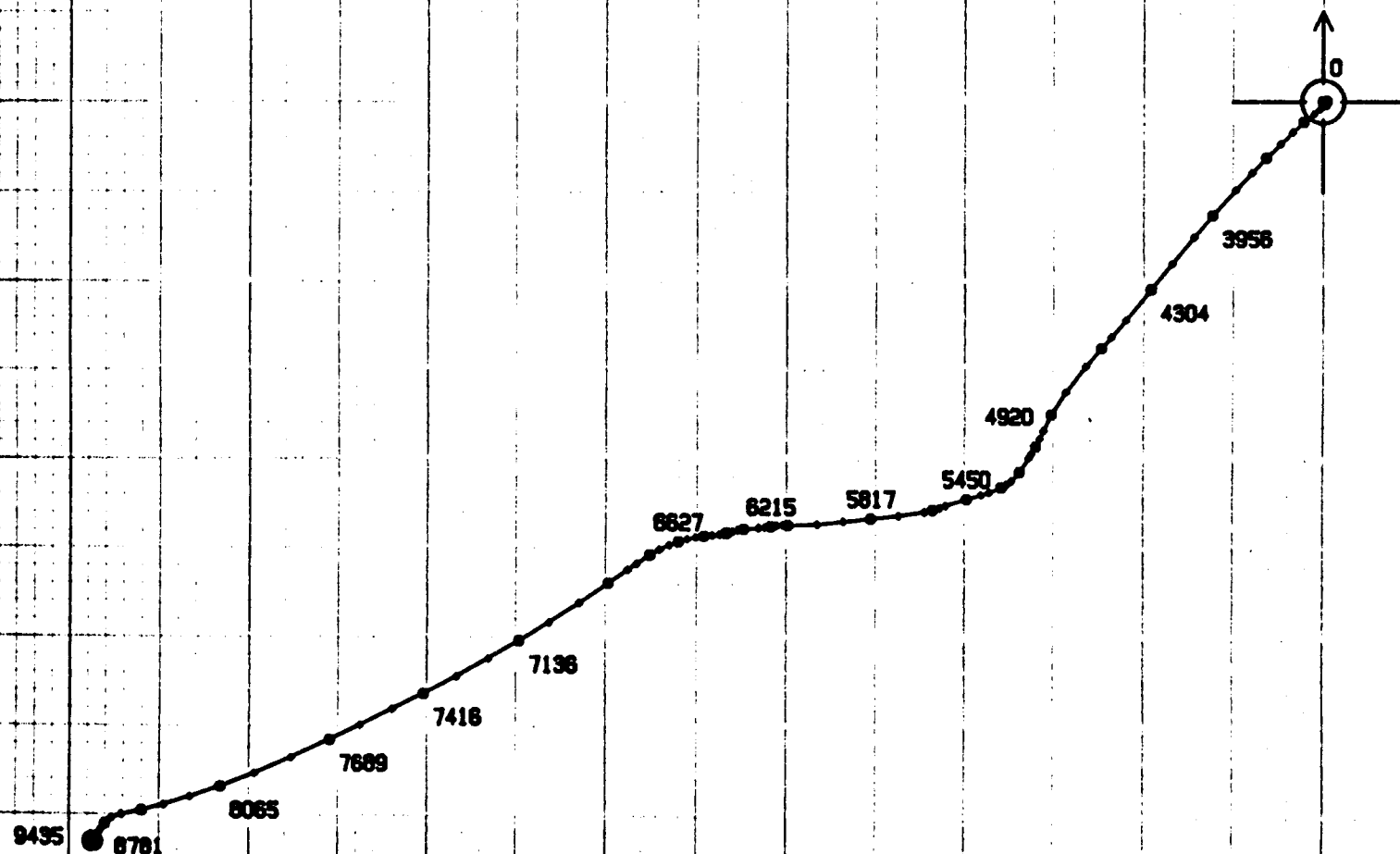
FINAL CLOSURE - DIRECTION: S 58 45 18 W
DISTANCE: 1606.86 FEET

BEARTOOTH OIL AND GAS COMPANY
WELL NAME: FEDERAL 36-5D
LOCATION: UINTAH COUNTY, UTAH

EASTMAN WHIPSTOCK, INC.

HORIZONTAL PROJECTION

SCALE 1 IN. = 200 FEET
DEPTH INDICATOR: MD



FINAL STATION:
DEPTH 9435 MD. 9161.82 TVD
SOUTH 833.47 WEST 1373.79
CLOSURE 1606.85 S 58 45 18 W
3317.48 FNL, 960.80 FEL
SECTION 35, T 15 S, R 22 E

BEARTOOTH OIL AND GAS COMPANY
WELL NAME: FEDERAL 36-5D
LOCATION: UINTAH COUNTY, UTAH

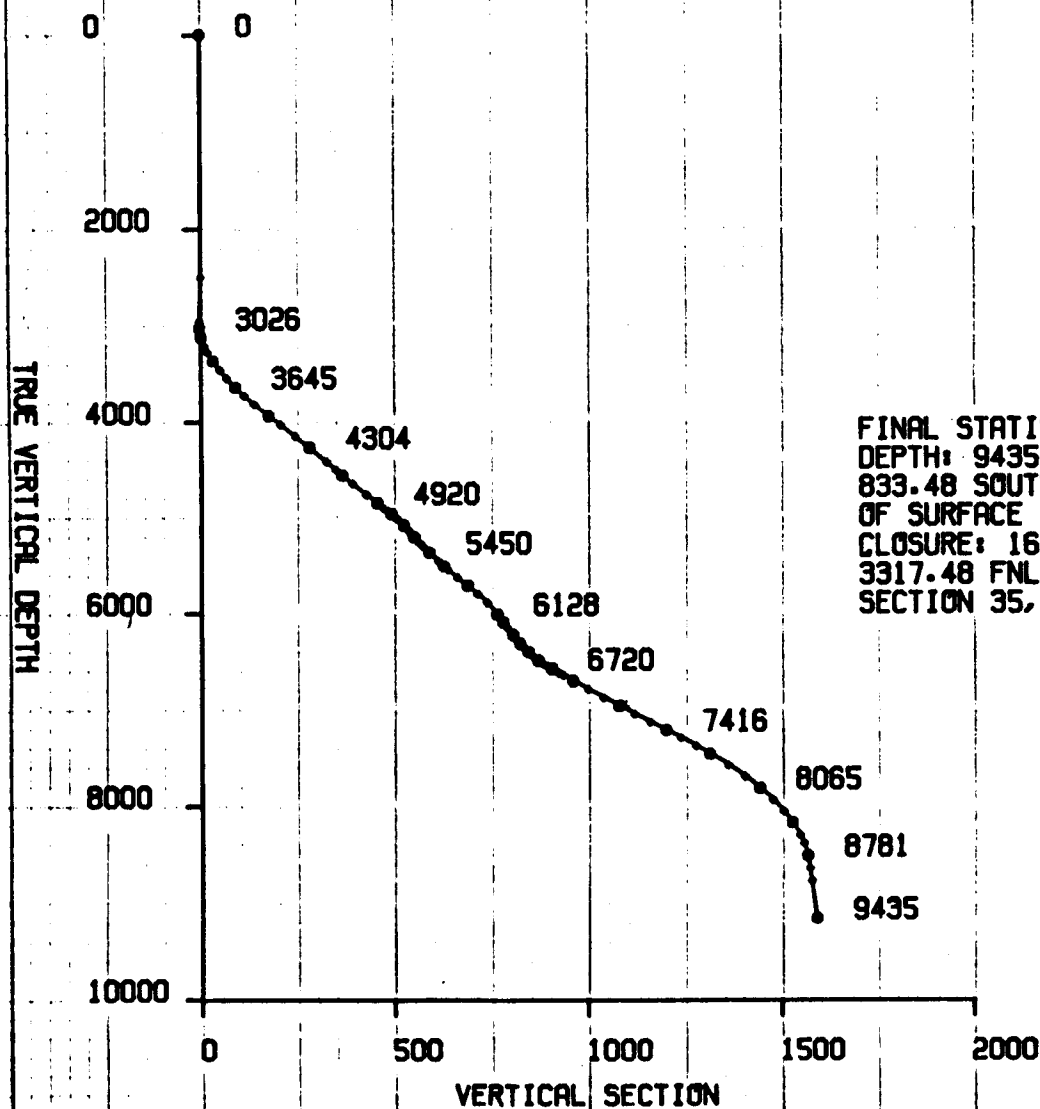
EASTMAN WHIPSTOCK, INC.

VERTICAL PROJECTION

HORIZONTAL SCALE 1 IN. = 500 FEET

VERTICAL SCALE 1 IN. = 2000 FEET

PLANE OF PROJECTION:
S 50 DEG 45 MIN 26 SEC W



FINAL STATION:
DEPTH: 9435.00 MD, 9161.82 TVD
833.48 SOUTH, 1373.80 WEST
OF SURFACE LOCATION
CLOSURE: 1606.86 AT S 58 45 18 W
3317.48 FNL, 960.80 FEL
SECTION 35, T 15 S, R 22 E

COMPLETION REPORT

BEARTOOTH OIL AND GAS COMPANY
WELL NAME: FEDERAL 34-50
LOCATION: UTAH COUNTY, UTAH
FILE NO.: A4-310
START DATE: 09-NOV-84
JOB NO.: RM1104 D1145
TYPE: SINGLE SHOT
SURVEYOR: DAVE REUST D.D.S.
DECLINATION: 14 EAST
COMPUTER OPERATOR: ANN HEBERLEIN

VERTICAL SECTION CALCULATED IN PLANE: S 50 45 26 W

RECORD OF INTERPOLATED SURVEY

BEARTOOTH OIL AND GAS COMPANY
WELL NAME: FEDERAL 36-5D
LOCATION: UINTAH COUNTY, UTAH

COMPLETION REPORT

COMPUTATION
TIME DATE
15:08:59 17-DEC-84

PAGE NO.: 1

MEASURED DEPTH FEET	TRUE VERTICAL DEPTH FEET	RECTANGULAR COORDINATES FEET	CLOSURE DISTANCE FEET	DIRECTION D M
CASTLEGATE FORMATION:				
4943.00	4876.59	358.76 S 304.88 W	470.81	S 40 22 W
DAKOTA SILT FORMATION:				
9096.00	8823.03	823.55 S 1367.35 W	1596.21	S 58 56 W
DAKOTA SAND FORMATION:				
9184.00	8910.97	826.13 S 1369.03 W	1598.97	S 58 53 W
MORRISON FORMATION:				
9335.00	9061.88	830.55 S 1371.90 W	1603.72	S 58 49 W

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO. 3

U-44434

6. INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Dry Hole	DEC 26 1984	7. PERMIT AGREEMENT NAME
2. NAME OF OPERATOR Beartooth Oil & Gas Company	DIVISION OF OIL, GAS & MINING	8. FARM OR LEASE NAME Federal
3. ADDRESS OF OPERATOR P. O. Box 2564, Billings, Montana 59103		9. WELL NO. 36-5D
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2484' FNL, 413' FWL Sec. 36-T15S-R22E at TD: 3317.48' FNL, 960.8' FEL (NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 35)		10. FIELD AND POOL, OR WILDCAT Fence Canyon
14. PERMIT NO. 43-047-31511	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7514' GL, 7525' KB	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Surface Location SW $\frac{1}{4}$ NW $\frac{1}{4}$ 36-15S-22E
		12. COUNTY OR PARISH Uintah
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐

PULL OR ALTER CASING ☐

WATER SHUT-OFF ☐

REPAIRING WELL ☐

FRACTURE TREAT ☐

MULTIPLE COMPLETE ☐

FRACTURE TREATMENT ☐

ALTERING CASING ☐

SHOOT OR ACIDIZE ☐

ABANDON* ☒

SHOOTING OR ACIDIZING ☐

ABANDONMENT* ☐

REPAIR WELL ☐

CHANGE PLANS ☐

(Other) ☐

(Other) ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Total Depth 9424'. Propose to plug and abandon as follows:

Plug No. 1 - 9000-9200' - 60 sacks
Plug No. 2 - 2900-3100' - 60 sacks
Plug No. 3 - 425-225' - 135 sacks
Plug No. 4 - 44-11' - 25 sacks

TVD
8727-8927'
2900-3100'
425-225'
44-11'

Will erect dry hole marker.

(verbal approval to plug received from Allan McKee at 7:00 PM 12/16/84)

18. I hereby certify that the foregoing is true and correct

SIGNED

Grace E. Brown

TITLE Drilling Department

DATE 12/20/84

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

*See Instructions on Reverse Side

DATE: 1/2/85

BY: John R. Day

RECEIVED

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

DEC 26 1984
DIVISION OF
OIL, GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Federal No. 36-5D
Operator Beartooth Oil & Gas Company Address P. O. Box 2564, Billings, Montana 59103
Contractor Veco Drilling Company Address Box 1705, Grand Junction, CO 81502
Location SW 1/4 NW 1/4 Sec. 36 T. 15S R. 22E County Uintah

Water Sands

	<u>Depth</u>	<u>Volume</u>	<u>Quality</u>
	From To	Flow Rate or Head	Fresh or Salty
1.	<u>NONE ENCOUNTERED</u>		
2.	<u></u>		
3.	<u></u>		
4.	<u></u>		
5.	<u></u>		

(Continue of reverse side if necessary)

		<u>Meas. Depth</u>	<u>TVD</u>
<u>Formation Tops</u>	Wasatch	1435'	1435'
	Ohio Creek	2249'	2249'
	Mesaverde	2955'	2955'
	Mancos	4653'	4600'
<u>Remarks</u>	Castlegate	4943'	4877'
	Frontier	8371'	8103'
	Dakota Silt	9096'	8023'
	Dakota	9184'	8911'
			Morrison 9335' 9062'

NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.

(b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

May 1, 1985

Beartooth Oil & Gas Company
PO Box 2564
525 Petroleum Building
Billings, Montana 59103

Gentlemen:

Re: Well No. Federal 36-5D - Sec. 35, T. 15S., R. 22E.,
Uintah County, Utah - API #43-047-31511

Our office received a Notice of Intention to Abandon the above referenced well dated December 26, 1984. As of the date of this letter we have not received a subsequent notice.

If this well has been plugged and abandoned, please return the enclosed Sundry Notice indicating the plugging procedure used and the date the work was completed.

Thank you for your cooperation in this matter.

Sincerely,

Pam Kenna
Well Records Specialist

Enclosure

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0170S/19



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

October 9, 1985

Beartooth Oil & Gas Company
P.O. Box 2564
525 Petroleum Building
Billings, Montana 59103

Gentlemen:

Re: Well No. Federal 36-5D - Sec. 35, T. 15S., R. 22E.,
Uintah County, Utah - API #43-047-31511

A letter requesting that you send in the subsequent plugging and abandonment report for the above referenced well was sent from our office on May 1, 1985. A copy of this letter is enclosed. The requested report has not yet been received .

Please take care of this matter as soon as possible, but not later than October 23, 1985.

Sincerely,

Pam Kenna
Well Records Specialist

Enclosure

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0170S/57

BEARTOOTH OIL & GAS COMPANY

P.O. Box 2564

Billings, Montana 59103

(406) 259-2451

RECEIVED

OCT 17 1985

**DIVISION OF OIL
GAS & MINING**

October 15, 1985

State of Utah Natural Resources
Oil, Gas & Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

406-245-5077

Attn: Pam Kenna
Well Records Specialist

Re: Well No. Federal 36-5D - Section 35,
T15S, R22E, Uintah County, Utah
API #43-047-31511

Dear Ms. Kenna:

Enclosed for your information are a well completion report and abandonment notice for the above referenced well. This well has been abandoned and we are now in the process of rehabilitating the location. We have postponed submitting a subsequent report of abandonment until such time as the location has been cleaned up and reseeded. We were unable to clean up the location any earlier than this due to a large volume of drilling mud in the reserve pit, which has been evaporating during this past summer.

If you need any further information at this time, please advise.

Very truly yours,

BEARTOOTH OIL & GAS COMPANY

James G. Routson

James G. Routson
Consulting Petroleum Engineer

JGR:bp

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

9

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ OTHER ☐
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. CENVR. ☐ Other ☐
2. NAME OF OPERATOR: Beartooth Oil & Gas Company
3. ADDRESS OF OPERATOR: P. O. Box 2564, Billings, Montana 59104
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements):
At surface: 2484' FNL, 413' FWL sec. 36-T15S-R22E
At top prod. interval reported below: 3317.48' FNL, 960.8' FEL
At total depth: NE 1/4 SE 1/4 SW 1/4 35-15S-22E

RECEIVED
OCT 17 1985
DIVISION OF OIL
& MINING

5. LEASE DESIGNATION AND SERIAL NO.: U-44434
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Federal
9. WELL NO.: 36-5D
10. FIELD AND POOL, OR WILDCAT: Fence Canyon
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Surface location SW 1/4 NW 1/4 36-15S-22E
12. COUNTY OR PARISH: Uintah
13. STATE: Utah

15. DATE SPUDDED: 11/3/84
16. DATE T.D. REACHED: 12/15/84
17. DATE COMPL. (Ready to prod.): P&A 12-17-84
18. ELEVATIONS (DF, RKB, RT, GR, ETC.): 7514' GL, 7525' KB
19. ELEV. CASINGHEAD: -
20. TOTAL DEPTH, MD & TVD: 9424' MD, 9162' TVD
21. PLUG, BACK T.D., MD & TVD: -
22. IF MULTIPLE COMPL., HOW MANY: -
23. INTERVALS DRILLED BY: -
24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD): none
25. WAS DIRECTIONAL SURVEY MADE: yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL/SP/GR, CDL/CNS/GR, Directional Survey
27. WAS WELL CORED: no

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	61#, J-55	325' KB	17-1/2"	350 sacks	-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

Well plugged and abandoned 12/17/84 TVD

PLUG	INTERVAL	SACKS
Plug #1	9000-9200'	60 sacks
Plug #2	2900-3100'	60 sacks
Plug #3	425-225'	135 sacks
Plug #4	44-11' (GL)	25 sacks

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8727-8927	
2900-3100	
425-225	
44-11	

33. PRODUCTION

DATE FIRST PRODUCTION:
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump):
WELL STATUS (Producing or shut-in):

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.):

35. LIST OF ATTACHMENTS:

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED: Grace E. Brown TITLE: Drilling Department DATE: 12/19/84

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			None

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Wasatch	1435'	1435'
Ohio Creek	2249'	2249'
Mesaverde	2955'	2955'
Mancos	4653'	4600'
Castlegate	4943'	4877'
Frontier	8371'	8103'
Dakota Silt	9096'	8023'
Dakota Sand	9184'	8911'
Morrison	9335'	9062'

RECEIVED
OCT 17 1985

DIVISION OF OIL
GAS & MINING

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
OIL AND GAS INSPECTION RECORD

OPERATOR: BEARTOOTH OIL & GAS CO.

LEASE: U44434

WELL NAME: FEDERAL 36-5D

API: 43-047-31511

SEC/TWP/RNG: 36 15.0 S 22.0 E

CONTRACTOR:

COUNTY: Uintah

FIELD NAME: FENCE CANYON

DRILLING/COMPLETION/WORKOVER:

- APD	- WELL SIGN	- HOUSEKEEPING	- BOPE
- SAFETY	- POLLUTION CNTL	- SURFACE USE	- PITS
- OPERATIONS	- OTHER		

SHUT-IN - / TA -:

- WELL SIGN	- HOUSEKEEPING	- EQUIPMENT *	- SAFETY
- OTHER			

ABANDONED:

Y MARKER	Y HOUSEKEEPING	N REHAB	- OTHER
----------	----------------	---------	---------

PRODUCTION:

- WELL SIGN	- HOUSEKEEPING	- EQUIPMENT *	- FACILITIES *
- METERING *	- POLLUTION CNTL	- PITS	- DISPOSAL
- SECURITY	- SAFETY	- OTHER	

GAS DISPOSITION:

- VENTED/FLARED	- SOLD	- LEASE USE
-----------------	--------	-------------

LEGEND: Y = YES/SATISFACTORY N = NO/UNSATISFACTORY A = NOT APPLICABLE

*FACILITIES INSPECTED:
LOCATION, P&A MARKER

REMARKS:

LOCATION CONTOURED ONLY. VERY ROCKY.

ACTION:

CONTACT BLM - REHAB LOCATION.

INSPECTOR: CAROL KUBLY

DATE: 10/02/87